

**BIODEGRADABLE TRIBLOCK COPOLYMERS,
SYNTHESIS METHODS THEREFORE, AND HYDROGELS AND
BIOMATERIALS MADE THERE FROM**

Abstract of the Disclosure

5 A drug delivery system that includes a hydrogel formed from cyclodextrin and an
amphiphilic copolymer that includes an A polymer block comprising a poly(alkylene
oxide) and a B polymer block comprising a poly(hydroxyalkanoate), and a
therapeutically effective amount of at least one therapeutic agent intimately contained
within the hydrogel. In one preferred embodiment of the invention, the A polymer block
10 is poly(ethylene oxide) (PEO) and the B polymer block is poly[(*R*)-3-hydroxybutyrate]
(PHB), and the copolymer is the triblock ABA copolymer PEO-PHB-PEO. A method of
synthesizing the amphiphilic triblock copolymer is also provided.

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